Chronic Disease Atlas
- Stroke -
San Diego County

COUNTY OF SAN DIEGO
HHSA
HEALTH AND HUMAN SERVICES AGENCY
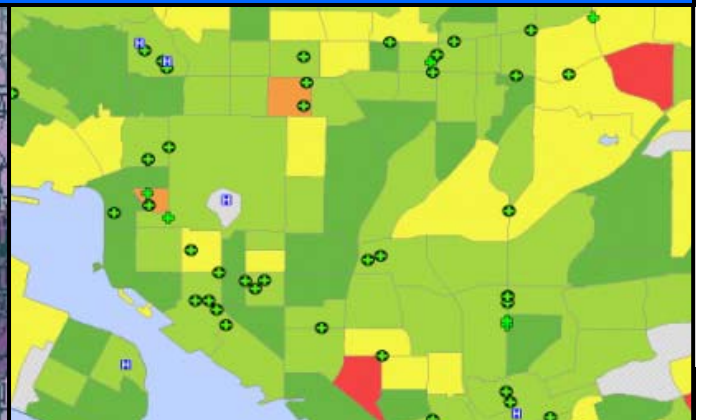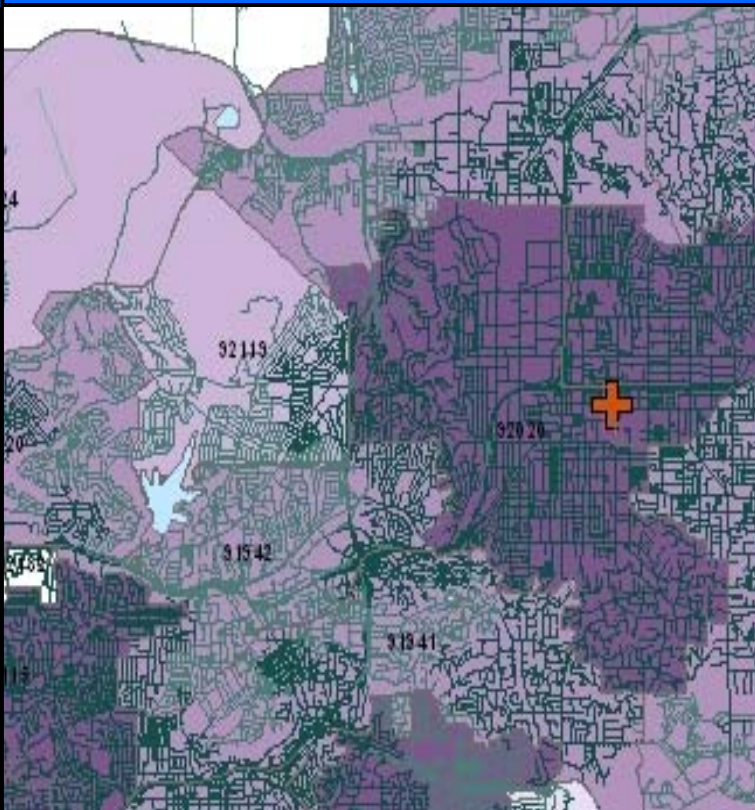
DECEMBER 2010

Stroke Medical Encounter* Rates San Diego County by Subregional Area, by Year

*Stroke deaths refer to underlying (single) cause of death, ICD-10 codes I60-I69.
*Stroke hospitalizations refer to principal diagnosis, ICD-9 CM codes 430-438.
*Stroke emergency department discharges refer to principal diagnosis, ICD-9 CM codes 430-438.

Medical Encounters*

Death Data is based on underlying cause of death (not multiple causes) and uses ICD-10 codes. Those included are residents of San Diego County with known zip code of residence.
Source: Death Statistical Master Files (CA Department of Public Health), County of San Diego, Health & Human Services Agency, Epidemiology & Immunization Services Branch.

Hospital Data is based on principal diagnosis and uses ICD-9 CM codes. Those included are residents of San Diego County with known zip code of residence.
Source: Hospital Discharge Data, (CA OSHPD), County of San Diego, Health & Human Services Agency, Epidemiology & Immunization Services Branch.

Emergency Department (ED) Data is based on principal diagnosis and uses ICD-9 CM codes. ED discharges are those patients treated and discharged from the ED. Patients admitted to the hospital are not included here, but in the hospitalization data. Those included are residents of San Diego County with known zip code of residence.
Source: HASD&IC, County of San Diego, Health & Human Services Agency, Emergency Medical Services, Emergency Department Database.

Population Data Source: San Diego Association of Governments (SANDAG), Current Population Estimates, 4/24/2009.

Data (rates) prepared by County of San Diego, Health & Human Services Agency, Public Health Services, Community Health Statistics Unit, from Community Profile.
Maps prepared by County of San Diego, Health & Human Services Agency, Public Health Services, Emergency Medical Services.

<div align="center">

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For more detailed explanation of geography, methods, and sources,
see online Community Profile at www.SDHealthStatistics.com

</div>

Stroke Death Rates
Among San Diego County Residents
by Subregional Area

Maps by Year:
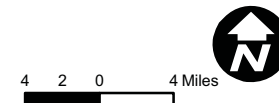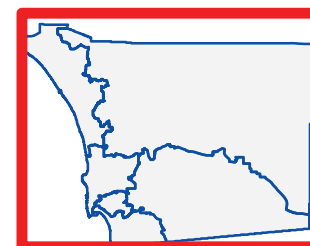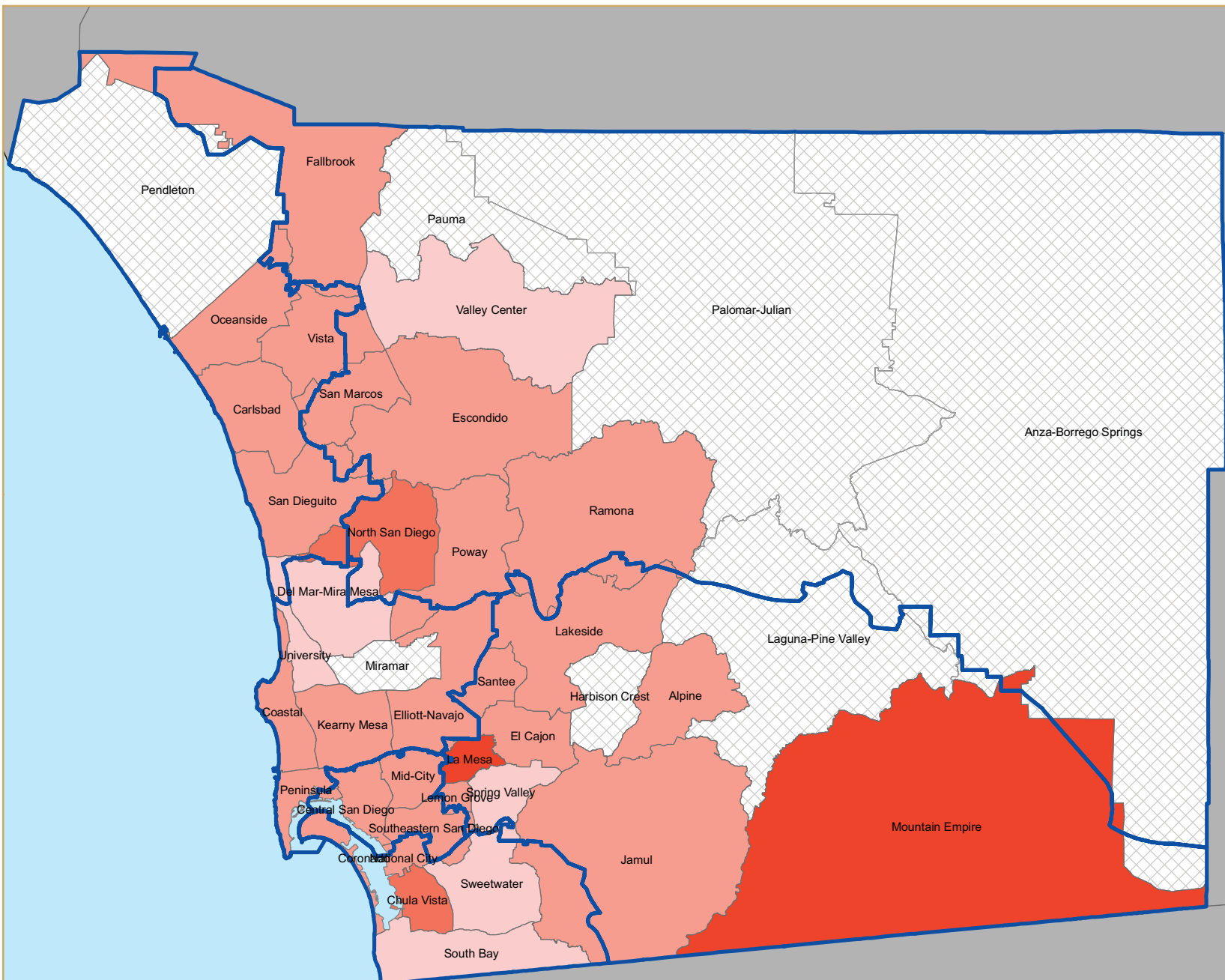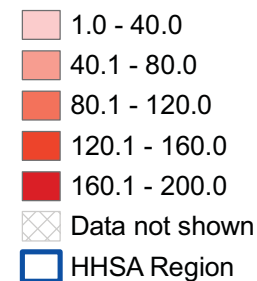## 2000
2001
2002
2003
2004
2005
2006
2007

Chronic Disease Outcome Rates
by Subregional Area (SRA)
in San Diego County

Stroke Death Rates, 2000

- 1.0 - 40.0
- 40.1 - 80.0
- 80.1 - 120.0
- 120.1 - 160.0
- 160.1 - 200.0
- Data not shown
- HHSA Region

Pendleton

Fallbrook

Pauma

Palomar-Julian

Oceanside

Vista

Valley Center

Carlsbad

San Marcos

Escondido

Anza-Borrego Springs

San Dieguito

North San Diego

Poway

Ramona

Del Mar-Mira Mesa

University

Miramar

Lakeside

Laguna-Pine Valley

Coastal

Kearny Mesa

Elliott-Navajo

Santee

Harbison Crest

Alpine

El Cajon

La Mesa

Mid-City

Spring Valley

Peninsula

Lemon Grove

Central San Diego

Southeastern San Diego

Coronado National City

Sweetwater

Jamul

Mountain Empire

Chula Vista

South Bay

4   2   0   4 Miles

COUNTY OF SAN DIEGO
HHSA
HEALTH AND HUMAN SERVICES AGENCY

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* Rates per 100,000 population.

† Stroke death refers to (underlying cause of death) ICD-10 codes I60-I69.   Stroke is sometimes referred to as Cerebrovascular disease.

§ Rates not calculated for fewer than 5 events. Rates not calculated in cases where zip code is unknown or outside San Diego County.

Source: Death Statistical Master Files (CA DPH), County of San Diego, Health & Human Services Agency, Epidemiology & Immunization Services Branch; SANDAG, Current Population Estimates, 4/24/2009.
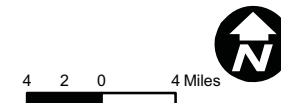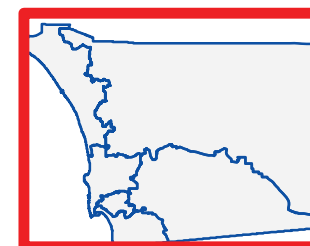
Prepared by County of San Diego (CoSD), Health & Human Services Agency (HHSA), Community Health Statistics, 9/10/2010.

Map Date: September, 2010
Contact: Isabel Corcos or Leslie Ray,
County of San Diego Emergency Medical Services
619.285.6429

NAD_1983_StatePlane_California_VI_FIPS_0406_Feet,
D_North_American_1983, Foot_US

Chronic Disease Outcome Rates
by Subregional Area (SRA)
in San Diego County

Stroke Death Rates, 2001

- 1.0 - 40.0
- 40.1 - 80.0
- 80.1 - 120.0
- 120.1 - 160.0
- 160.1 - 200.0
- Data not shown
- HHSA Region

4 2 0   4 Miles

COUNTY OF SAN DIEGO
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* Rates per 100,000 population.

† Stroke death refers to (underlying cause of death) ICD-10 codes I60-I69.   Stroke is sometimes referred to as Cerebrovascular disease.

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Source: Death Statistical Master Files (CA DPH), County of San Diego, Health & Human Services Agency, Epidemiology & Immunization Services Branch;
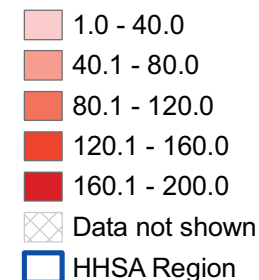SANDAG, Current Population Estimates, 4/24/2009.

Prepared by County of San Diego (CoSD), Health & Human Services Agency (HHSA), Community Health Statistics, 9/10/2010.

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Contact: Isabel Corcos or Leslie Ray,
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NAD_1983_StatePlane_California_VI_FIPS_0406_Feet,
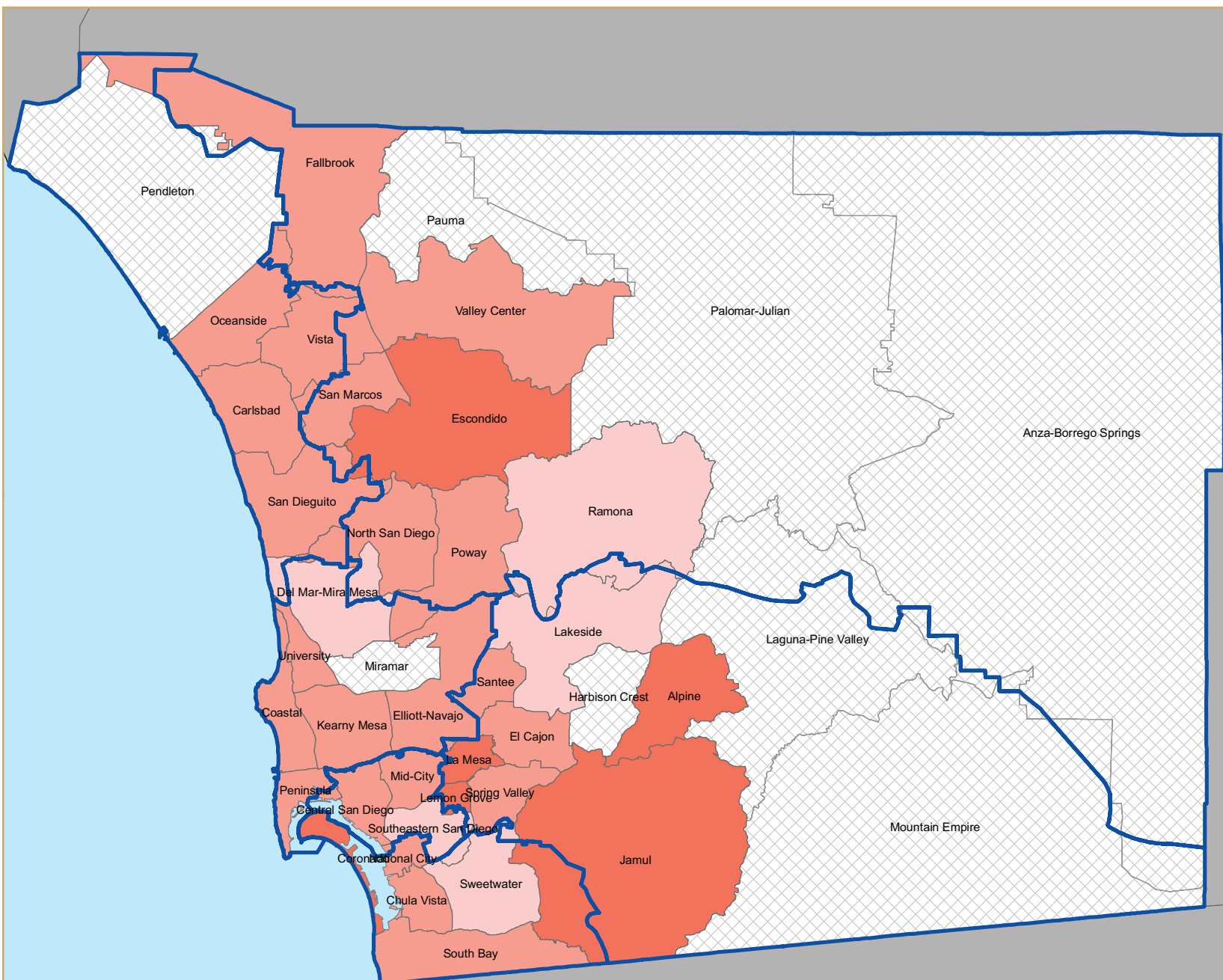D_North_American_1983, Foot_US

Chronic Disease Outcome Rates by Subregional Area (SRA) in San Diego County

Stroke Death Rates, 2002

- 1.0 - 40.0
- 40.1 - 80.0
- 80.1 - 120.0
- 120.1 - 160.0
- 160.1 - 200.0
- Data not shown
- HHSA Region

Pendleton

Fallbrook

Pauma

Oceanside

Vista

Valley Center

Palomar-Julian

Carlsbad

San Marcos

Escondido

Anza-Borrego Springs

San Dieguito

North San Diego

Poway

Ramona

Del Mar-Mira Mesa

University

Miramar

Lakeside

Laguna-Pine Valley

Coastal

Kearny Mesa

Elliott-Navajo

Santee

Harbison Crest

Alpine

El Cajon

La Mesa

Mid-City

Spring Valley

Peninsula

Lemon Grove

Central San Diego

Southeastern San Diego

Coronado

National City

Jamul

Mountain Empire

Sweetwater

Chula Vista

South Bay

4   2   0   4 Miles

N

COUNTY OF SAN DIEGO
HHSA
HEALTH AND HUMAN SERVICES AGENCY

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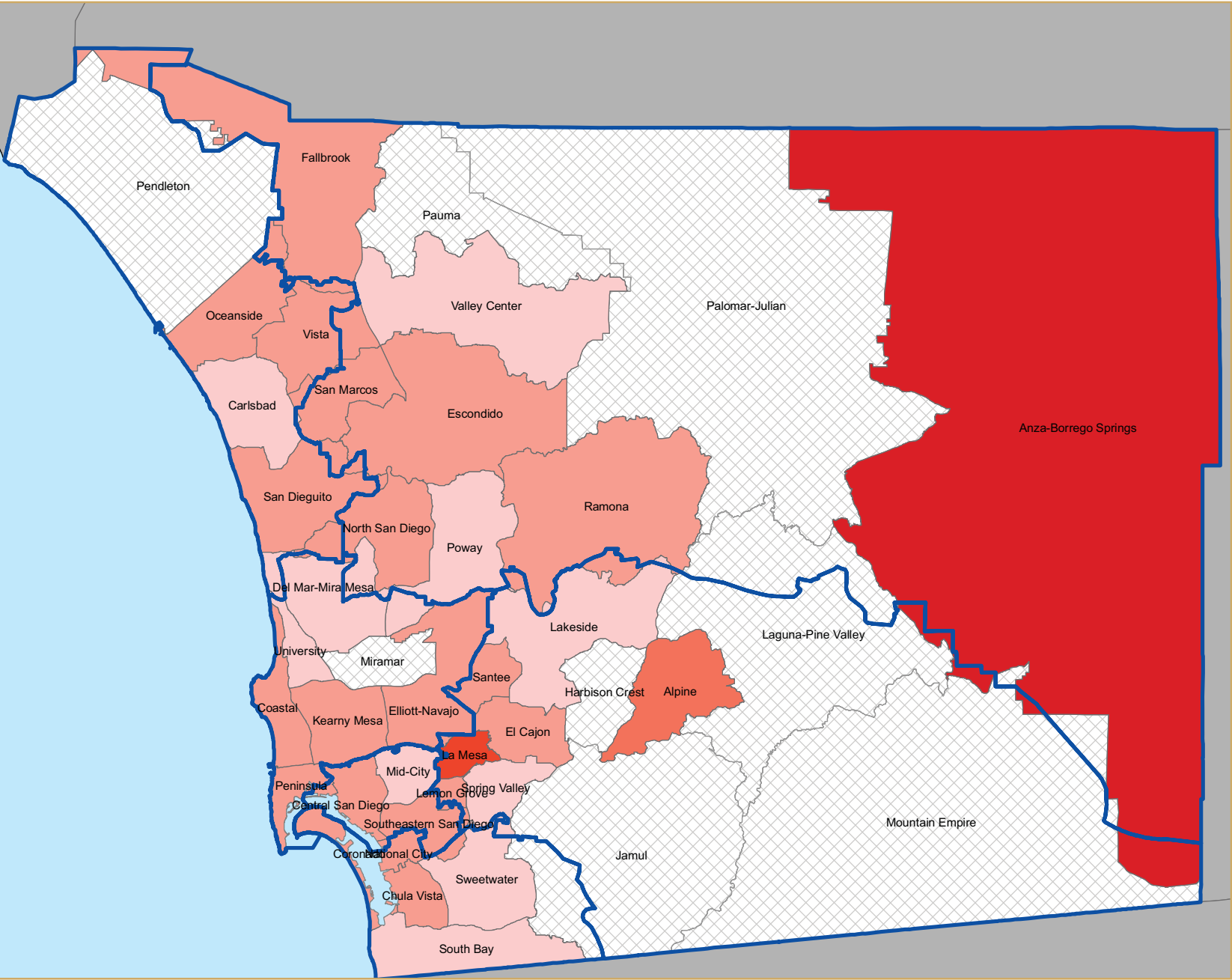* Rates per 100,000 population.

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Source: Death Statistical Master Files (CA DPH), County of San Diego, Health & Human Services Agency, Epidemiology & Immunization Services Branch; SANDAG, Current Population Estimates, 4/24/2009.

Prepared by County of San Diego (CoSD), Health & Human Services Agency (HHSA), Community Health Statistics, 9/10/2010.
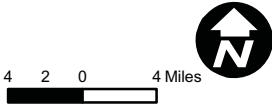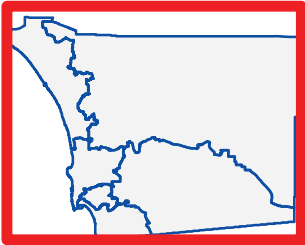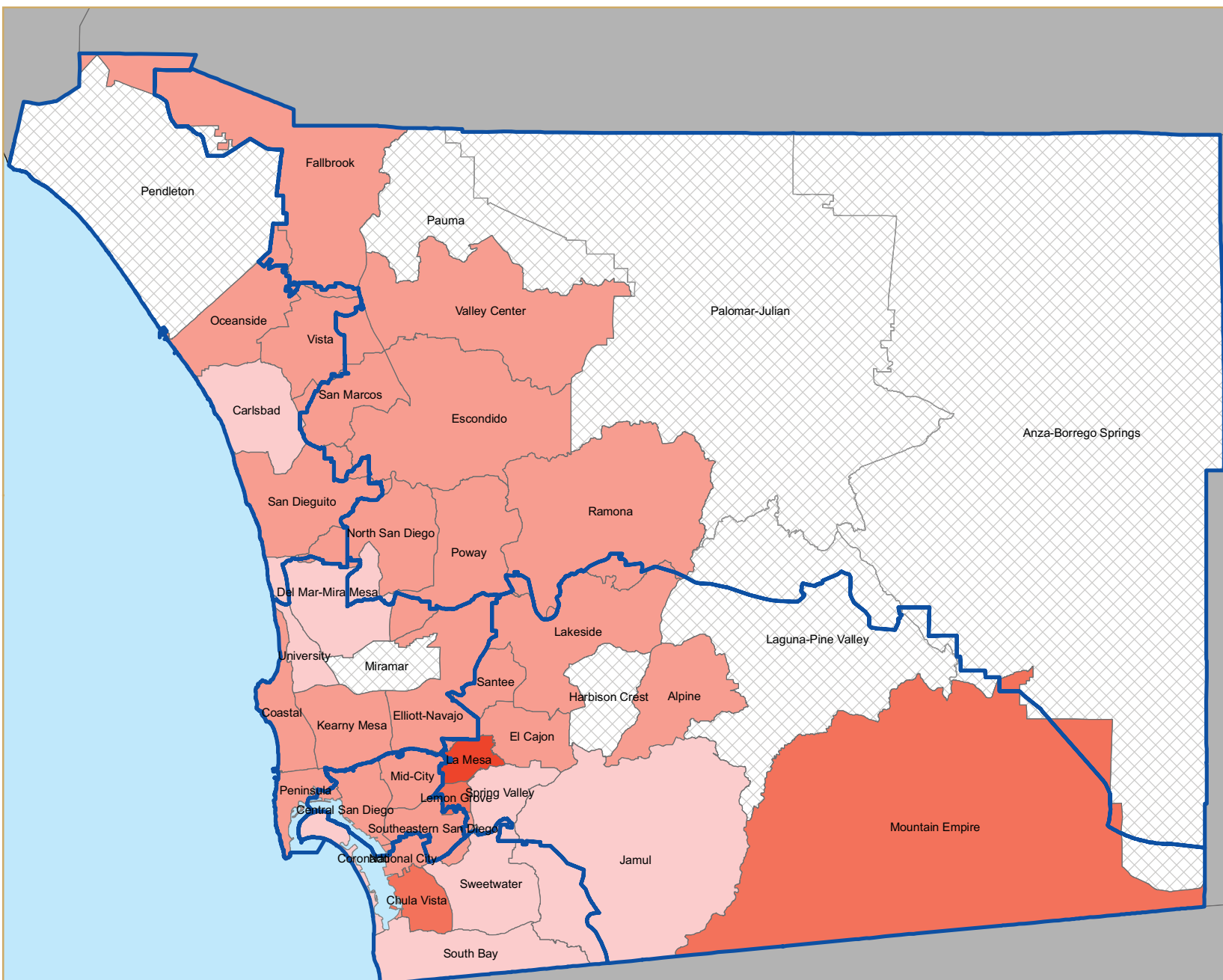
Map Date: September, 2010
Contact: Isabel Corcos or Leslie Ray,
County of San Diego Emergency Medical Services
619.285.6429

NAD_1983_StatePlane_California_VI_FIPS_0406_Feet,
D_North_American_1983, Foot_US

Chronic Disease Outcome Rates by Subregional Area (SRA) in San Diego County

Stroke Death Rates, 2003

- 1.0 - 40.0
- 40.1 - 80.0
- 80.1 - 120.0
- 120.1 - 160.0
- 160.1 - 200.0
- Data not shown
- HHSA Region

Pendleton
Fallbrook
Pauma
Oceanside
Vista
Valley Center
Palomar-Julian
Carlsbad
San Marcos
Escondido
San Dieguito
Anza-Borrego Springs
North San Diego
Poway
Ramona
Del Mar-Mira Mesa
University
Miramar
Lakeside
Coastal
Kearny Mesa
Elliott-Navajo
Santee
Harbison Crest
Alpine
Laguna-Pine Valley
El Cajon
La Mesa
Mid-City
Spring Valley
Lemon Grove
Peninsula
Central San Diego
Southeastern San Diego
Coronado
National City
Jamul
Mountain Empire
Chula Vista
Sweetwater
South Bay

4 2 0 4 Miles

N

COUNTY OF SAN DIEGO
HHSA
HEALTH AND HUMAN SERVICES AGENCY

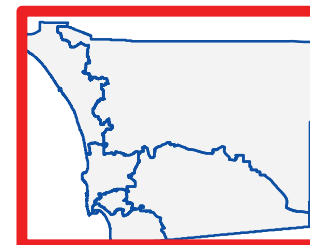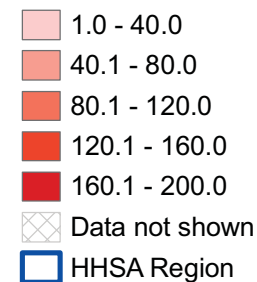SANDAG

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* Rates per 100,000 population.

† Stroke death refers to (underlying cause of death) ICD-10 codes I60-I69.   Stroke is sometimes referred to as Cerebrovascular disease.

§ Rates not calculated for fewer than 5 events. Rates not calculated in cases where zip code is unknown or outside San Diego County.

Source: Death Statistical Master Files (CA DPH), County of San Diego, Health & Human Services Agency, Epidemiology & Immunization Services Branch; SANDAG, Current Population Estimates, 4/24/2009.

Prepared by County of San Diego (CoSD), Health & Human Services Agency (HHSA), Community Health Statistics, 9/10/2010.

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NAD_1983_StatePlane_California_VI_FIPS_0406_Feet,
D_North_American_1983, Foot_US

Chronic Disease Outcome Rates by Subregional Area (SRA) in San Diego County

Stroke Death Rates, 2004

- 1.0 - 40.0
- 40.1 - 80.0
- 80.1 - 120.0
- 120.1 - 160.0
- 160.1 - 200.0
- Data not shown
- HHSA Region

Pendleton

Fallbrook

Pauma

Palomar-Julian

Valley Center

Oceanside

Vista

Carlsbad

San Marcos

Escondido

San Dieguito

Ramona

Anza-Borrego Springs

North San Diego

Poway

Del Mar-Mira Mesa

Lakeside

University

Miramar

Laguna-Pine Valley

Santee

Coastal

Kearny Mesa

Elliott-Navajo

Harbison Crest

Alpine

El Cajon

La Mesa

Peninsula

Mid-City

Spring Valley

Lemon Grove

Central San Diego

Southeastern San Diego

Mountain Empire

Coronado

National City

Jamul

Sweetwater

Chula Vista

South Bay

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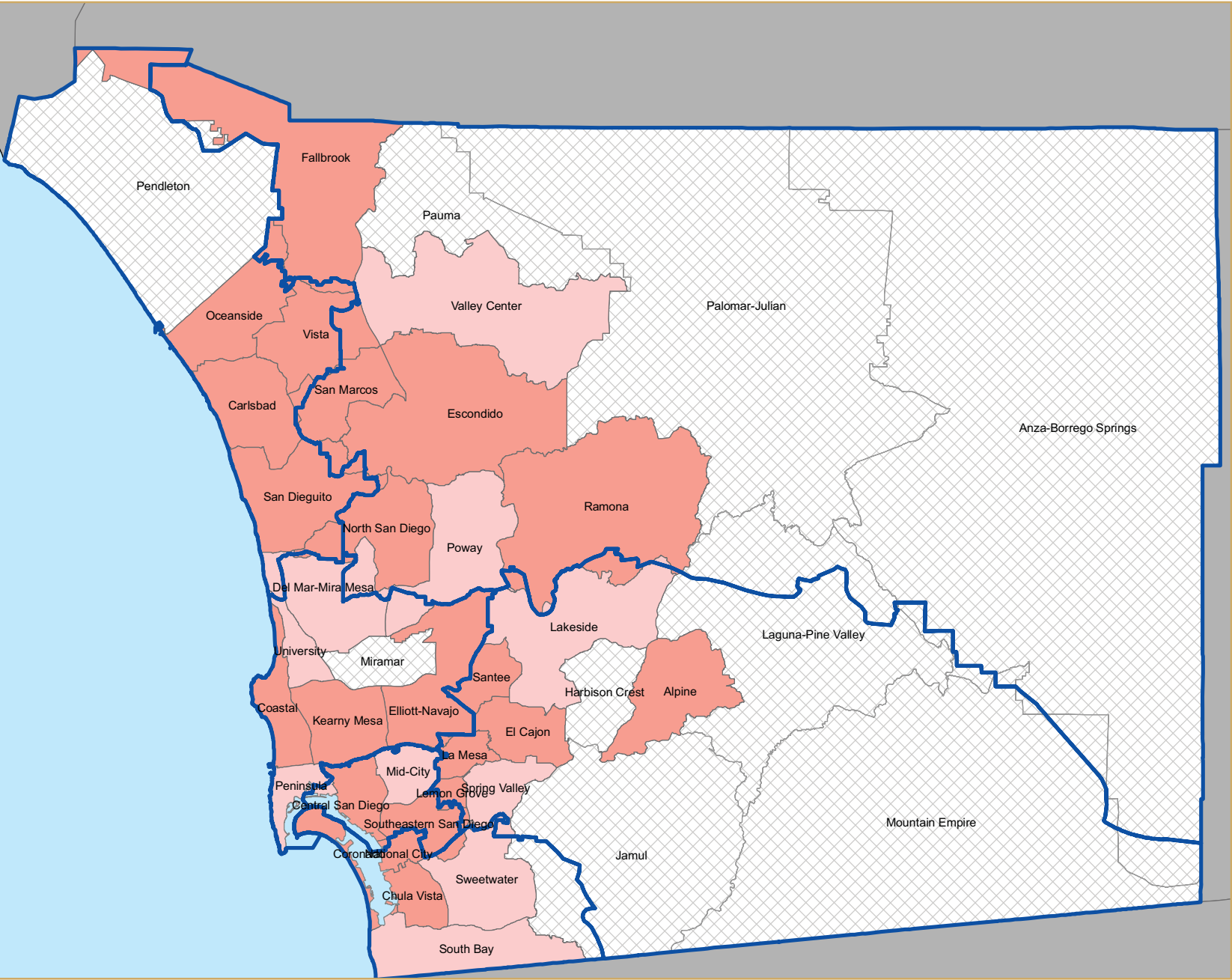
Source: Death Statistical Master Files (CA DPH), County of San Diego, Health & Human Services Agency, Epidemiology & Immunization Services Branch; SANDAG, Current Population Estimates, 4/24/2009.

Prepared by County of San Diego (CoSD), Health & Human Services Agency (HHSA), Community Health Statistics, 9/10/2010.

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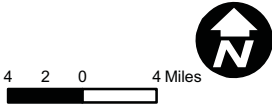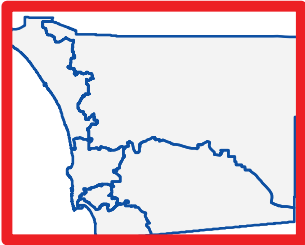County of San Diego Emergency Medical Services
619.285.6429

NAD_1983_StatePlane_California_VI_FIPS_0406_Feet,
D_North_American_1983, Foot_US

Chronic Disease Outcome Rates
by Subregional Area (SRA)
in San Diego County

Stroke Death Rates, 2005

- 1.0 - 40.0
- 40.1 - 80.0
- 80.1 - 120.0
- 120.1 - 160.0
- 160.1 - 200.0
- Data not shown
- HHSA Region

Pendleton
Fallbrook
Pauma
Oceanside
Valley Center
Vista
San Marcos
Carlsbad
Escondido
Palomar-Julian
Anza-Borrego Springs
San Dieguito
North San Diego
Poway
Ramona
Del Mar-Mira Mesa
University
Miramar
Lakeside
Laguna-Pine Valley
Coastal
Kearny Mesa
Elliott-Navajo
Santee
Harbison Crest
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El Cajon
La Mesa
Peninsula
Mid-City
Spring Valley
Lemon Grove
Central San Diego
Southeastern San Diego
Coronado
National City
Jamul
Mountain Empire
Chula Vista
Sweetwater
South Bay

4   2   0   4 Miles

N

COUNTY OF SAN DIEGO
HHSA
HEALTH AND HUMAN SERVICES AGENCY

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* Rates per 100,000 population.

† Stroke death refers to (underlying cause of death) ICD-10 codes I60-I69.   Stroke is sometimes referred to as Cerebrovascular disease.

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Source: Death Statistical Master Files (CA DPH), County of San Diego, Health & Human Services Agency, Epidemiology & Immunization Services Branch;
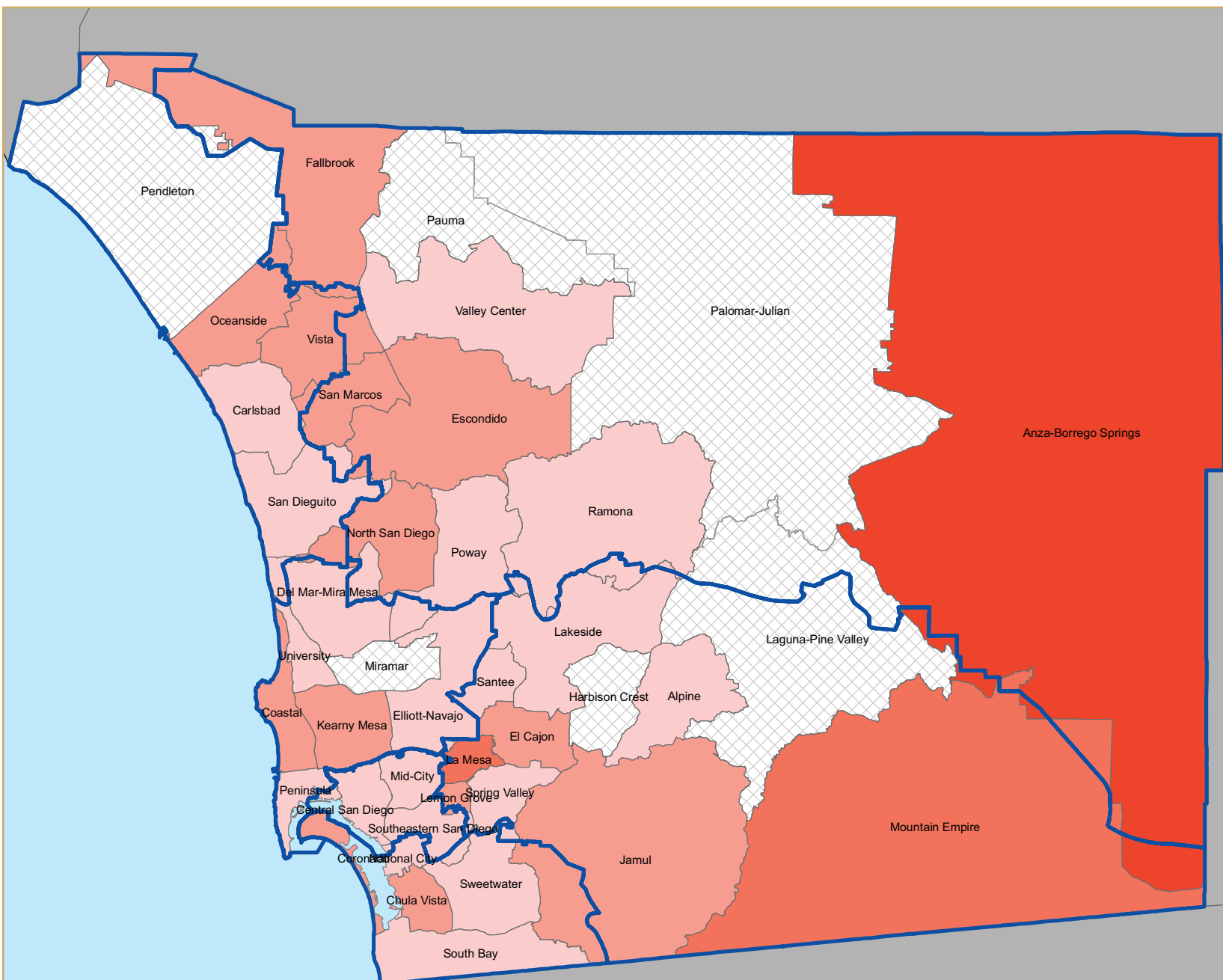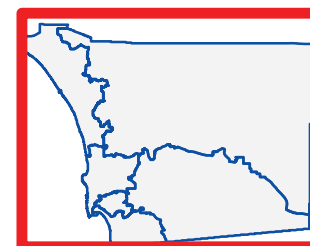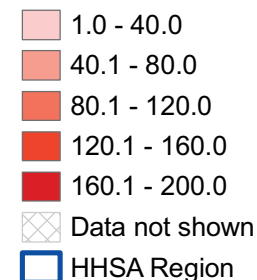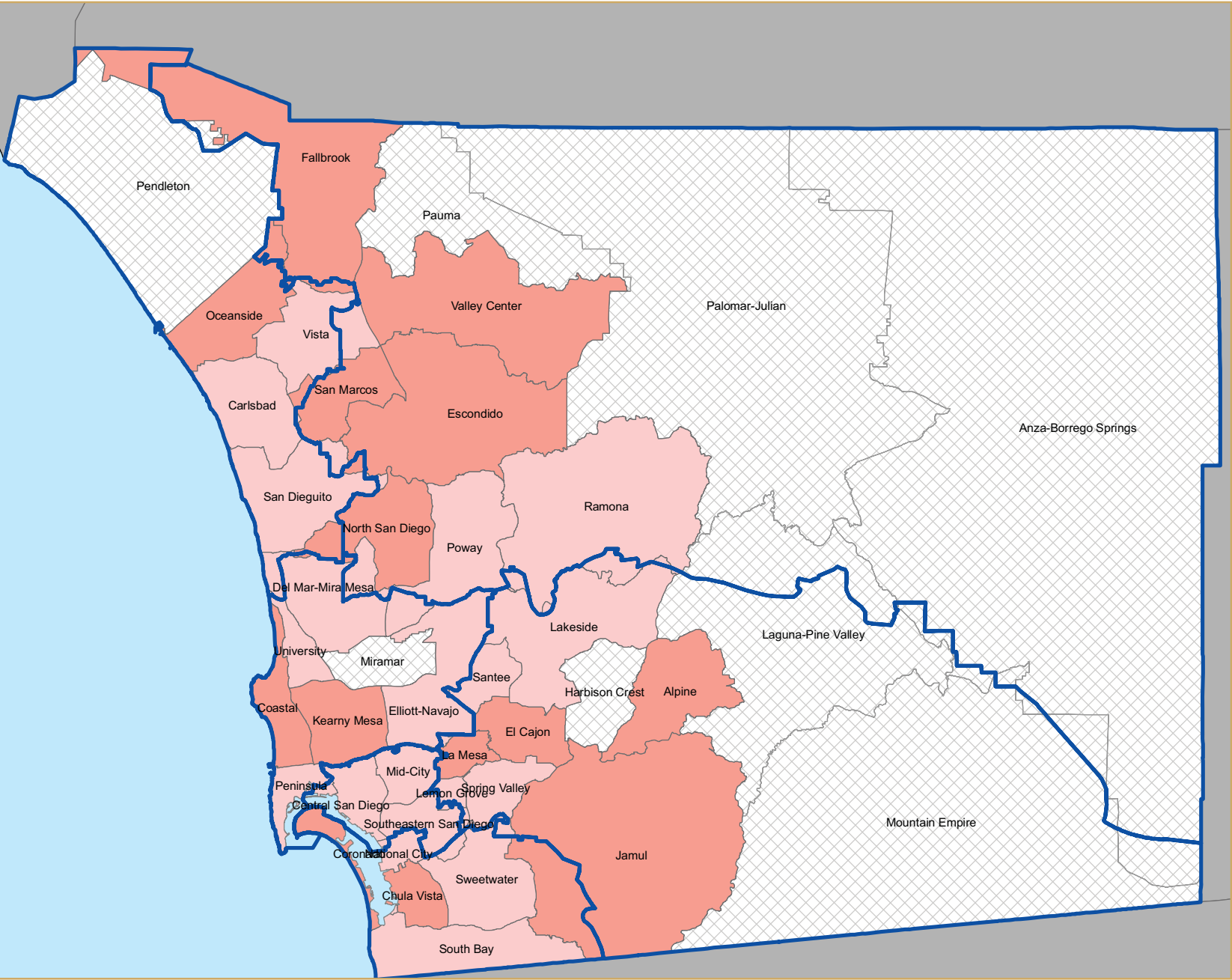SANDAG, Current Population Estimates, 4/24/2009.

Prepared by County of San Diego (CoSD), Health & Human Services Agency (HHSA), Community Health Statistics, 9/10/2010.

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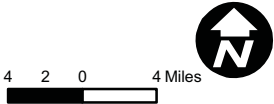County of San Diego Emergency Medical Services
619.285.6429

NAD_1983_StatePlane_California_VI_FIPS_0406_Feet,
D_North_American_1983, Foot_US

Chronic Disease Outcome Rates by Subregional Area (SRA) in San Diego County

Stroke Death Rates, 2006

- 1.0 - 40.0
- 40.1 - 80.0
- 80.1 - 120.0
- 120.1 - 160.0
- 160.1 - 200.0
- Data not shown
- HHSA Region

Pendleton

Fallbrook

Pauma

Valley Center

Palomar-Julian

Oceanside

Vista

San Marcos

Escondido

Anza-Borrego Springs

Carlsbad

San Dieguito

North San Diego

Poway

Ramona

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Lakeside

University

Miramar

Santee

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Spring Valley

Lemon Grove

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Central San Diego

Southeastern San Diego

Coronado

National City

Jamul

Sweetwater

Chula Vista

South Bay

COUNTY OF SAN DIEGO
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HEALTH AND HUMAN SERVICES AGENCY

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4 2 0 4 Miles

* Rates per 100,000 population.

† Stroke death refers to (underlying cause of death) ICD-10 codes I60-I69.   Stroke is sometimes referred to as Cerebrovascular disease.

§ Rates not calculated for fewer than 5 events. Rates not calculated in cases where zip code is unknown or outside San Diego County.

Source: Death Statistical Master Files (CA DPH), County of San Diego, Health & Human Services Agency, Epidemiology & Immunization Services Branch; SANDAG, Current Population Estimates, 4/24/2009.

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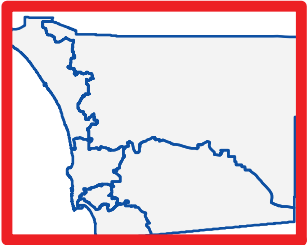County of San Diego Emergency Medical Services
619.285.6429

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D_North_American_1983, Foot_US

Chronic Disease Outcome Rates by Subregional Area (SRA) in San Diego County
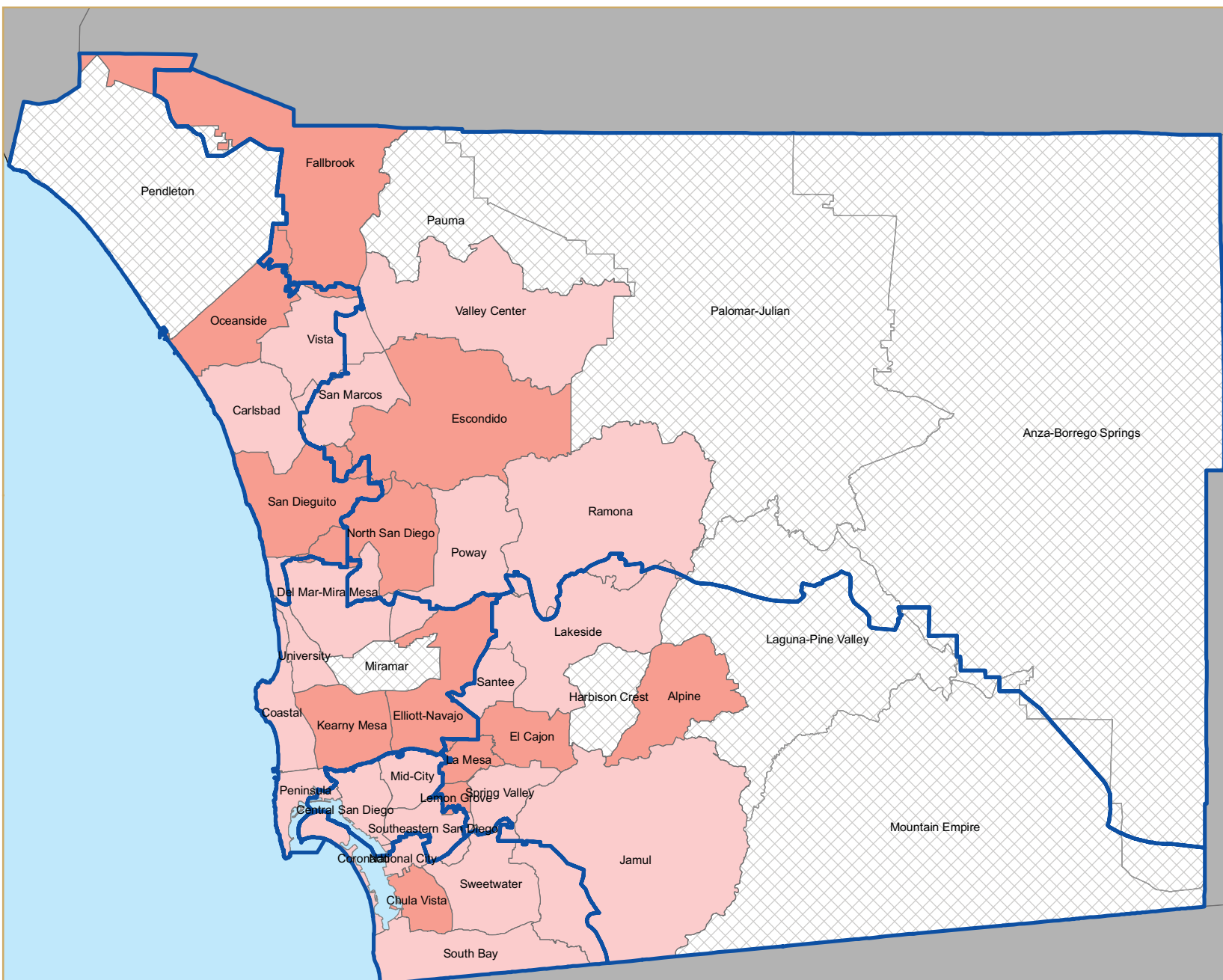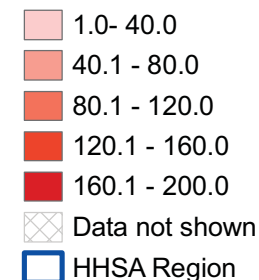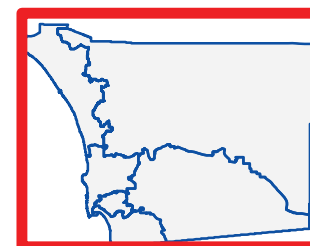
Stroke Death Rates, 2007

- 1.0- 40.0
- 40.1 - 80.0
- 80.1 - 120.0
- 120.1 - 160.0
- 160.1 - 200.0
- Data not shown
- HHSA Region

Map labels

Pendleton, Fallbrook, Pauma, Oceanside, Vista, Valley Center, Palomar-Julian, Carlsbad, San Marcos, Escondido, Anza-Borrego Springs, San Dieguito, North San Diego, Poway, Ramona, Del Mar-Mira Mesa, University, Miramar, Lakeside, Laguna-Pine Valley, Coastal, Kearny Mesa, Elliott-Navajo, Santee, Harbison Crest, Alpine, Peninsula, Mid-City, El Cajon, La Mesa, Spring Valley, Central San Diego, Lemon Grove, Southeastern San Diego, Coronado, National City, Jamul, Sweetwater, Mountain Empire, Chula Vista, South Bay

4 2 0 4 Miles

* Rates per 100,000 population.

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Source: Death Statistical Master Files (CA DPH), County of San Diego, Health & Human Services Agency, Epidemiology & Immunization Services Branch;
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Prepared by County of San Diego (CoSD), Health & Human Services Agency (HHSA), Community Health Statistics, 9/10/2010.

COUNTY OF SAN DIEGO
HHSA
HEALTH AND HUMAN SERVICES AGENCY

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Stroke Hospitalization Rates
Among San Diego County Residents
by Subregional Area

Maps by Year:
2000
2001
2002
2003
2004
2005
2006
2007
2008

Chronic Disease Outcome Rates by Subregional Area (SRA) in San Diego County

Map labels (SRAs): Pendleton, Fallbrook, Pauma, Oceanside, Vista, Valley Center, Palomar-Julian, San Marcos, Carlsbad, Escondido, San Dieguito, Anza-Borrego Springs, North San Diego, Ramona, Del Mar-Mira Mesa, Poway, University, Miramar, Lakeside, Laguna-Pine Valley, Coastal, Kearny Mesa, Elliott-Navajo, Santee, Harbison Crest, Alpine, El Cajon, Peninsula, Mid-City, La Mesa, Spring Valley, Central San Diego, Lemon Grove, Southeastern San Diego, Coronado, National City, Jamul, Mountain Empire, Sweetwater, Chula Vista, South Bay

Stroke Hosp Rates, 2000

- 1.0 - 200.0
- 200.1 - 400.0
- 400.1 - 600.0
- 600.1 - 800.0
- 800.1 - 1000.0
- Data not shown
- HHSA Region

4 2 0   4 Miles

* Rates per 100,000 population.

† Stroke hospitalization refers to (principal diagnosis) ICD-9 codes 430-438. Stroke is sometimes referred to as Cerebrovascular disease.

§ Rates not calculated for fewer than 5 events. Rates not calculated in cases where zip code is unknown or outside San Diego County.

Source: Hospital Discharge Data, (CA OSHPD), County of San Diego, Health & Human Services Agency, Epidemiology & Immunization Services Branch; SANDAG, Current Population Estimates, 4/24/2009.
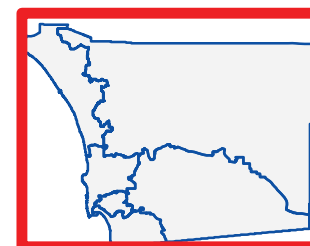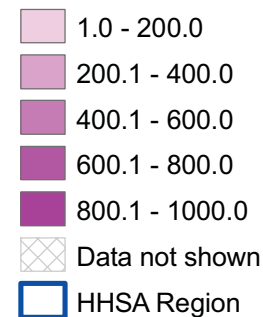
Prepared by County of San Diego (CoSD), Health & Human Services Agency (HHSA), Community Health Statistics, 9/10/2010.

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Chronic Disease Outcome Rates
by Subregional Area (SRA)
in San Diego County

Stroke Hosp Rates, 2001

- 1.0 - 200.0
- 200.1 - 400.0
- 400.1 - 600.0
- 600.1 - 800.0
- 800.1 - 1000.0
- Data not shown
- HHSA Region

Map labels:
Pendleton, Fallbrook, Pauma, Oceanside, Vista, Valley Center, Palomar-Julian, Carlsbad, San Marcos, Escondido, Anza-Borrego Springs, San Dieguito, North San Diego, Poway, Ramona, Del Mar-Mira Mesa, Lakeside, Laguna-Pine Valley, University, Miramar, Santee, Coastal, Kearny Mesa, Elliott-Navajo, Harbison Crest, Alpine, El Cajon, La Mesa, Mid-City, Spring Valley, Peninsula, Lemon Grove, Central San Diego, Southeastern San Diego, Coronado, National City, Mountain Empire, Chula Vista, Jamul, Sweetwater, South Bay

* Rates per 100,000 population.

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Source: Hospital Discharge Data, (CA OSHPD), County of San Diego, Health & Human Services Agency, Epidemiology & Immunization Services Branch; SANDAG, Current Population Estimates, 4/24/2009.

Prepared by County of San Diego (CoSD), Health & Human Services Agency (HHSA), Community Health Statistics, 9/10/2010.

Map Date: September, 2010
Contact: Isabel Corcos or Leslie Ray,
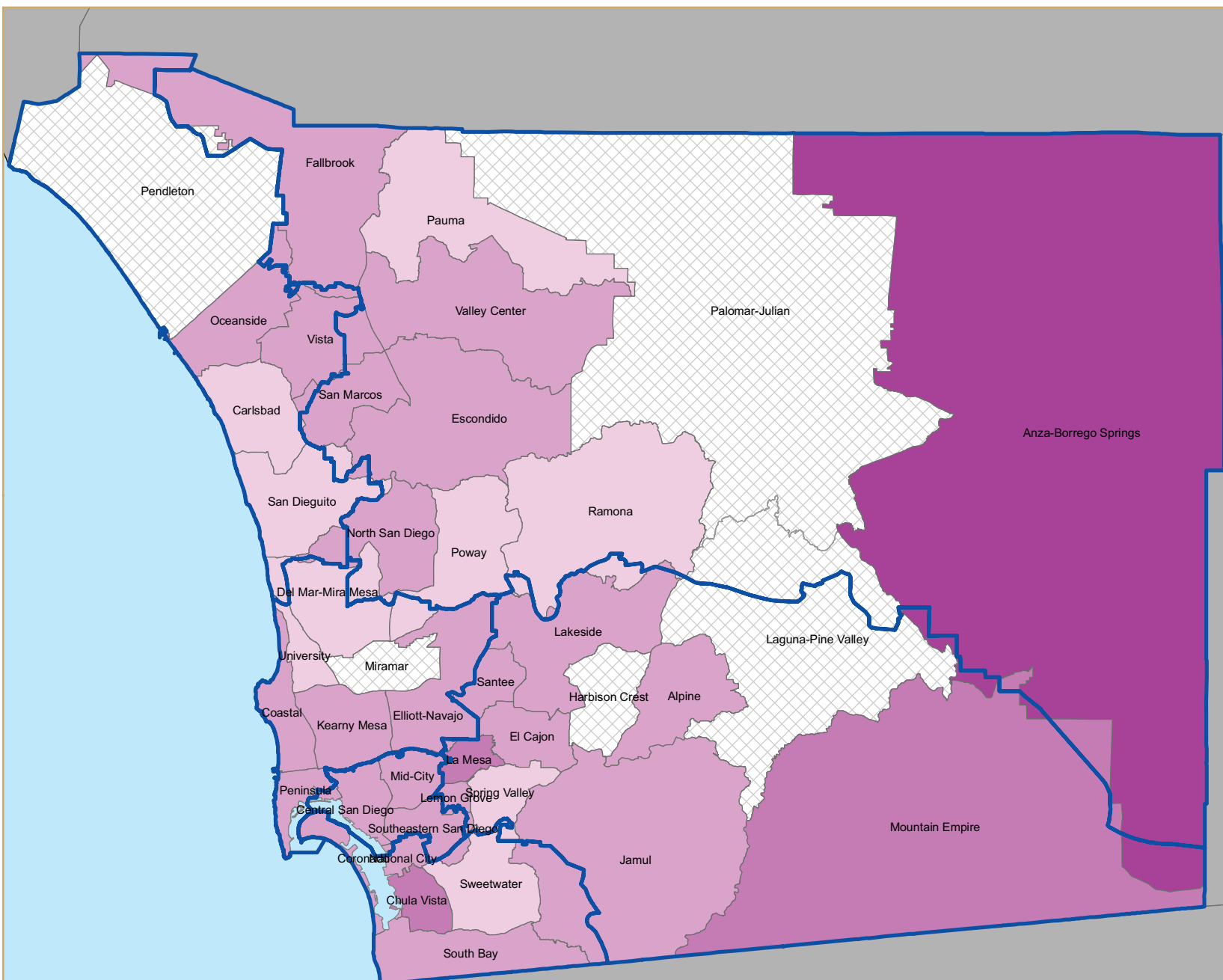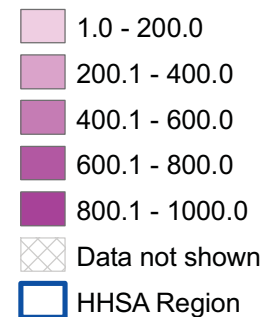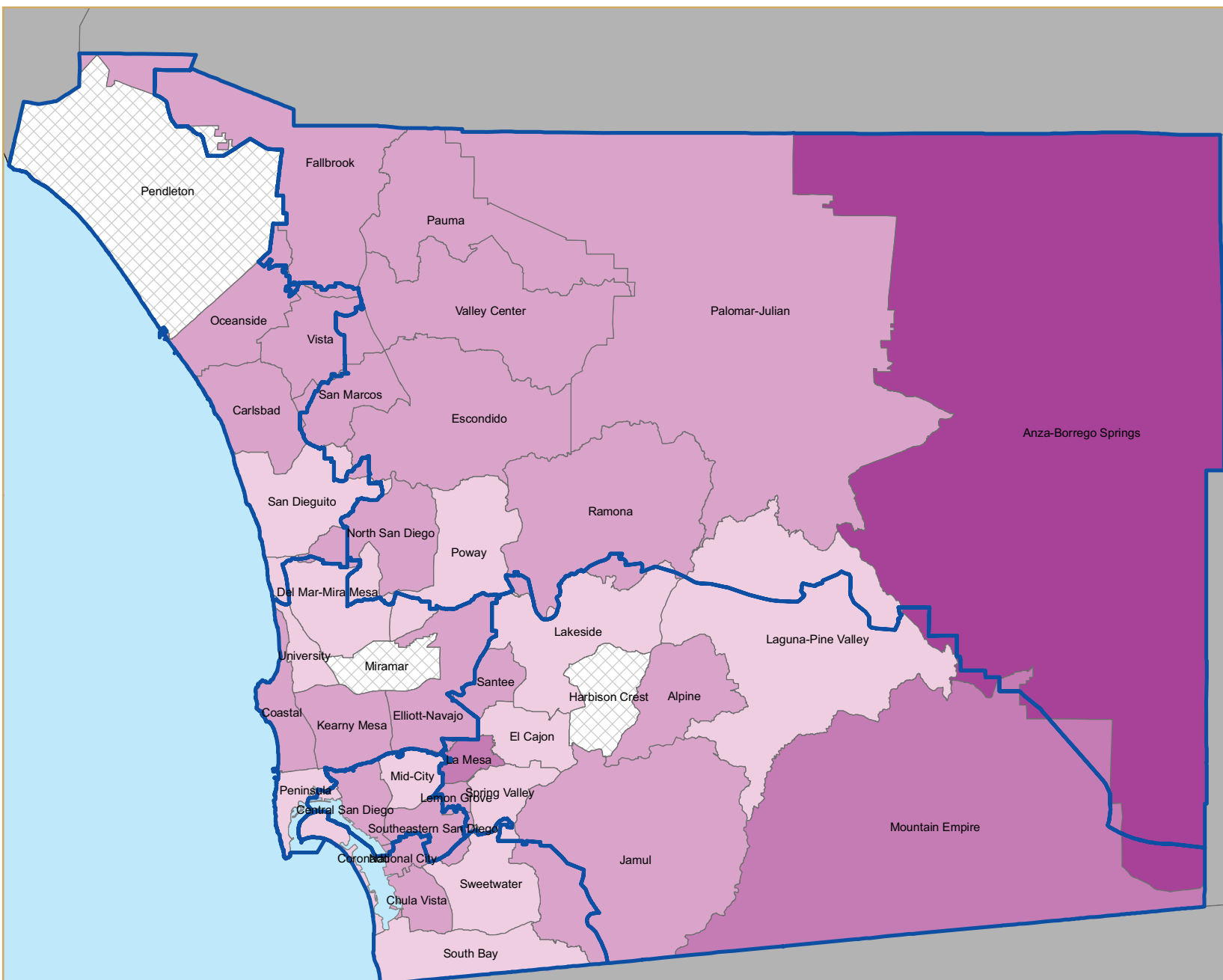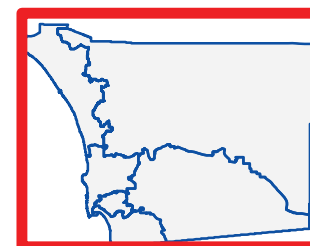County of San Diego Emergency Medical Services
619.285.6429

NAD_1983_StatePlane_California_VI_FIPS_0406_Feet,
D_North_American_1983, Foot_US

Chronic Disease Outcome Rates
by Subregional Area (SRA)
in San Diego County

Stroke Hosp Rates, 2002

- 1.0 - 200.0
- 200.1 - 400.0
- 400.1 - 600.0
- 600.1 - 800.0
- 800.1 - 1000.0
- Data not shown
- HHSA Region

Map labels:
Pendleton, Fallbrook, Pauma, Oceanside, Vista, Valley Center, Palomar-Julian, San Marcos, Carlsbad, Escondido, San Dieguito, North San Diego, Poway, Ramona, Anza-Borrego Springs, Del Mar-Mira Mesa, University, Miramar, Santee, Lakeside, Laguna-Pine Valley, Coastal, Kearny Mesa, Elliott-Navajo, Harbison Crest, Alpine, El Cajon, La Mesa, Mid-City, Spring Valley, Peninsula, Lemon Grove, Central San Diego, Southeastern San Diego, Mountain Empire, Coronado, National City, Jamul, Chula Vista, Sweetwater, South Bay

4 2 0 4 Miles

COUNTY OF SAN DIEGO
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* Rates per 100,000 population.

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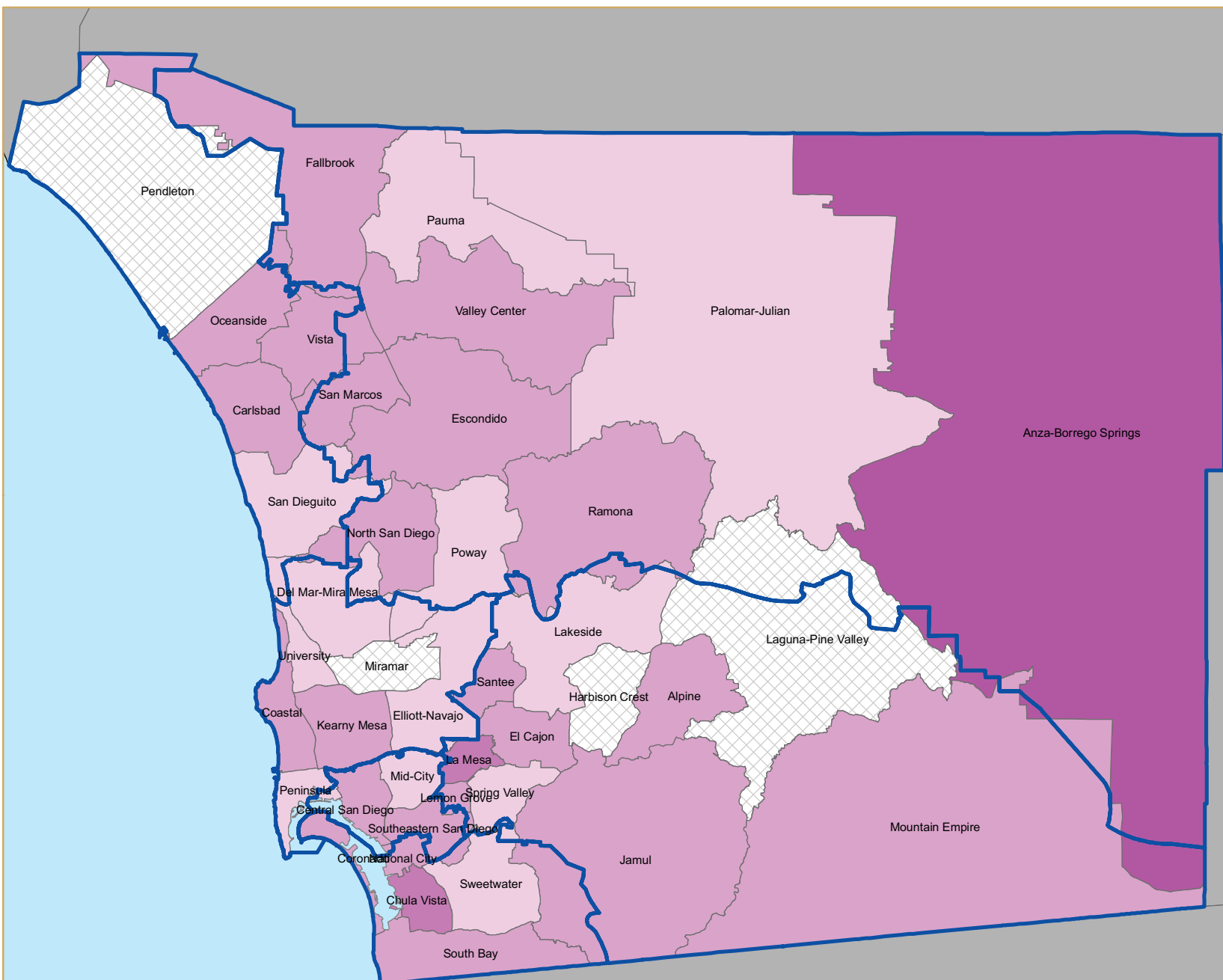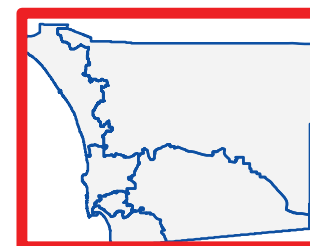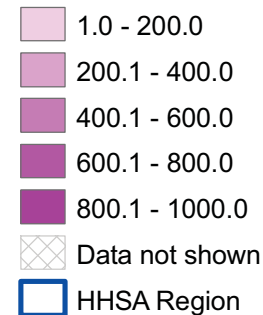
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NAD_1983_StatePlane_California_VI_FIPS_0406_Feet,
D_North_American_1983, Foot_US

Chronic Disease Outcome Rates
by Subregional Area (SRA)
in San Diego County

Stroke Hosp Rates, 2003

- 1.0 - 200.0
- 200.1 - 400.0
- 400.1 - 600.0
- 600.1 - 800.0
- 800.1 - 1000.0
- Data not shown
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4 2 0   4 Miles

COUNTY OF SAN DIEGO
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HEALTH AND HUMAN SERVICES AGENCY

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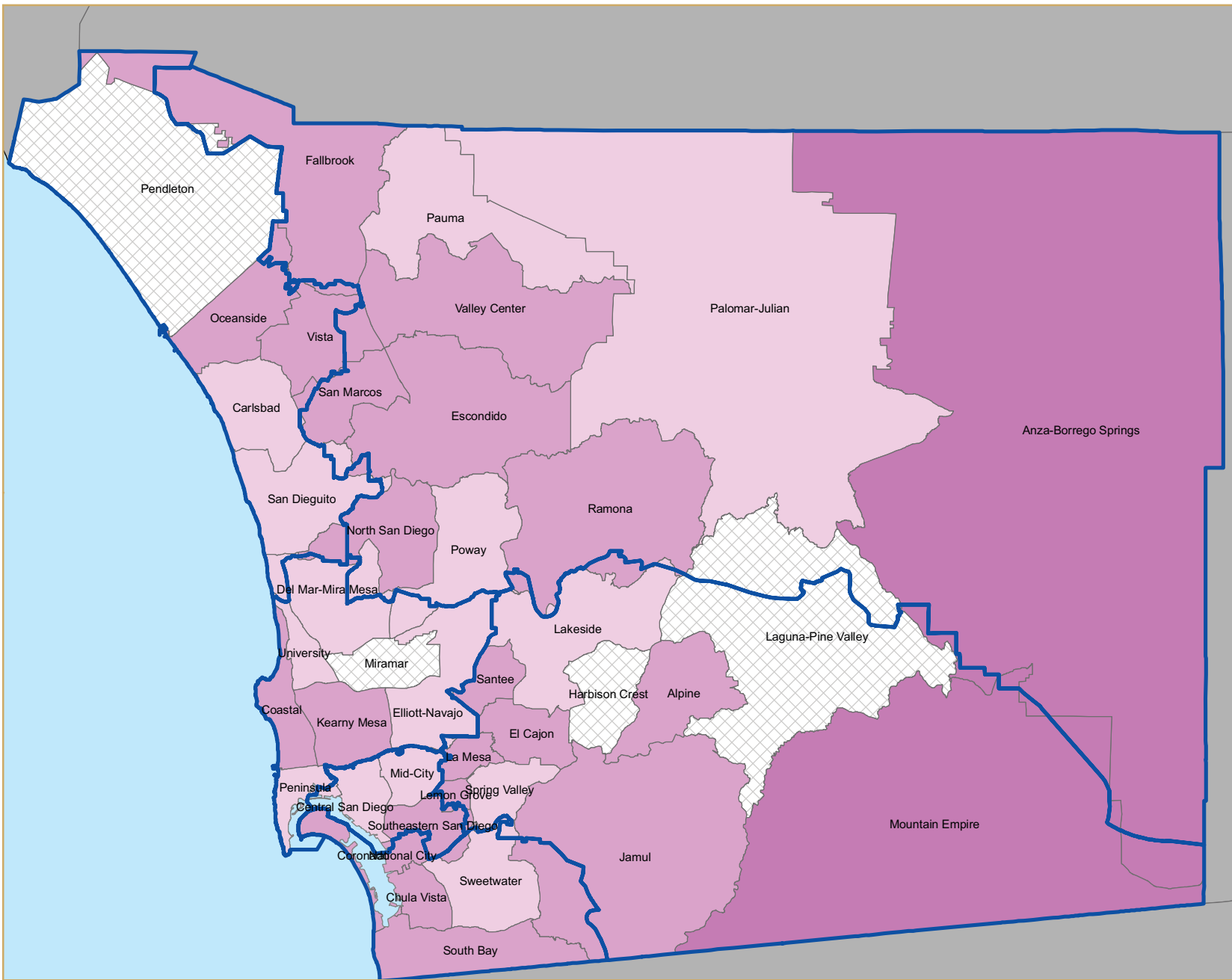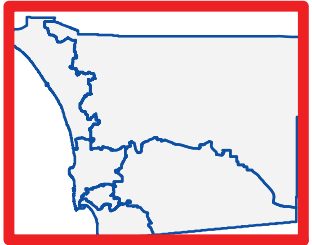
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Prepared by County of San Diego (CoSD), Health & Human Services Agency (HHSA), Community Health Statistics, 9/10/2010.

Chronic Disease Outcome Rates by Subregional Area (SRA) in San Diego County

Stroke Hosp Rates, 2004

- 1.0 - 200.0
- 200.1 - 400.0
- 400.1 - 600.0
- 600.1 - 800.0
- 800.1 - 1000.0
- Data not shown
- HHSA Region

Map labels: Pendleton, Fallbrook, Pauma, Oceanside, Vista, Valley Center, Palomar-Julian, San Marcos, Carlsbad, Escondido, Anza-Borrego Springs, San Dieguito, North San Diego, Poway, Ramona, Del Mar-Mira Mesa, University, Miramar, Lakeside, Laguna-Pine Valley, Santee, Coastal, Kearny Mesa, Elliott-Navajo, Harbison Crest, Alpine, El Cajon, Peninsula, Mid-City, La Mesa, Spring Valley, Central San Diego, Lemon Grove, Southeastern San Diego, Coronado, National City, Jamul, Mountain Empire, Sweetwater, Chula Vista, South Bay

4   2   0   4 Miles

* Rates per 100,000 population.

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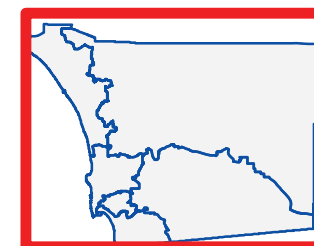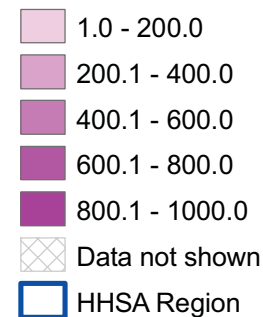SANDAG, Current Population Estimates, 4/24/2009.

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Chronic Disease Outcome Rates
by Subregional Area (SRA)
in San Diego County

Stroke Hosp Rates, 2005

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- 400.1 - 600.0
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- 800.1 - 1000.0
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4   2   0   4 Miles

COUNTY OF SAN DIEGO
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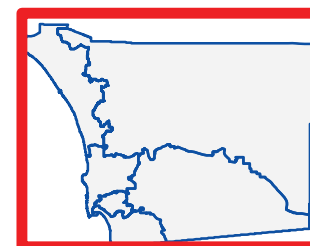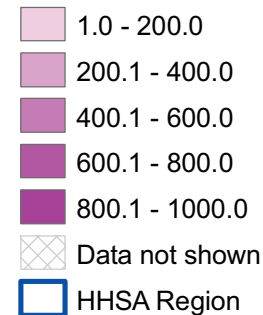SANDAG, Current Population Estimates, 4/24/2009.

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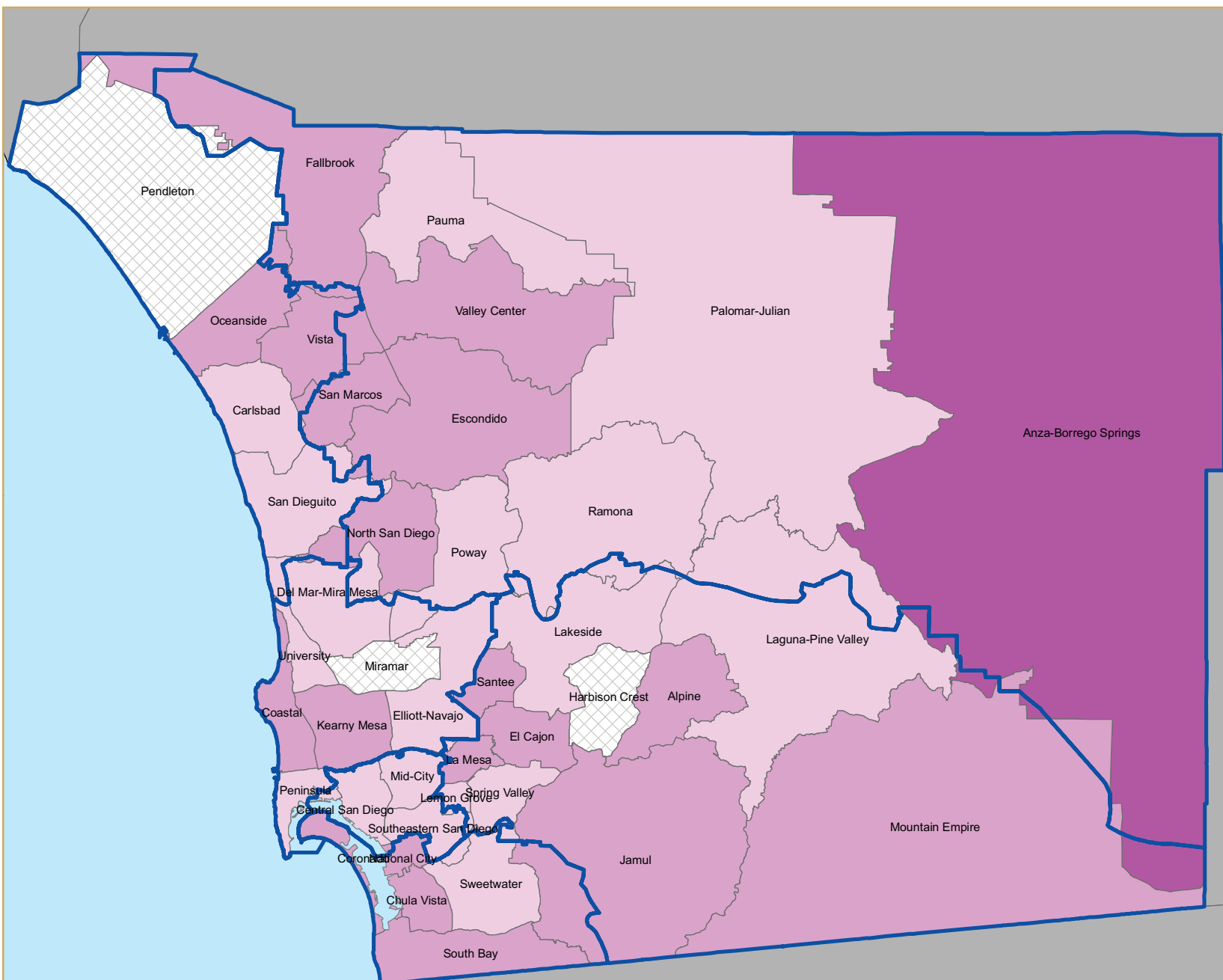County of San Diego Emergency Medical Services
619.285.6429

NAD_1983_StatePlane_California_VI_FIPS_0406_Feet,
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Chronic Disease Outcome Rates
by Subregional Area (SRA)
in San Diego County

Stroke Hosp Rates, 2006

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COUNTY OF SAN DIEGO
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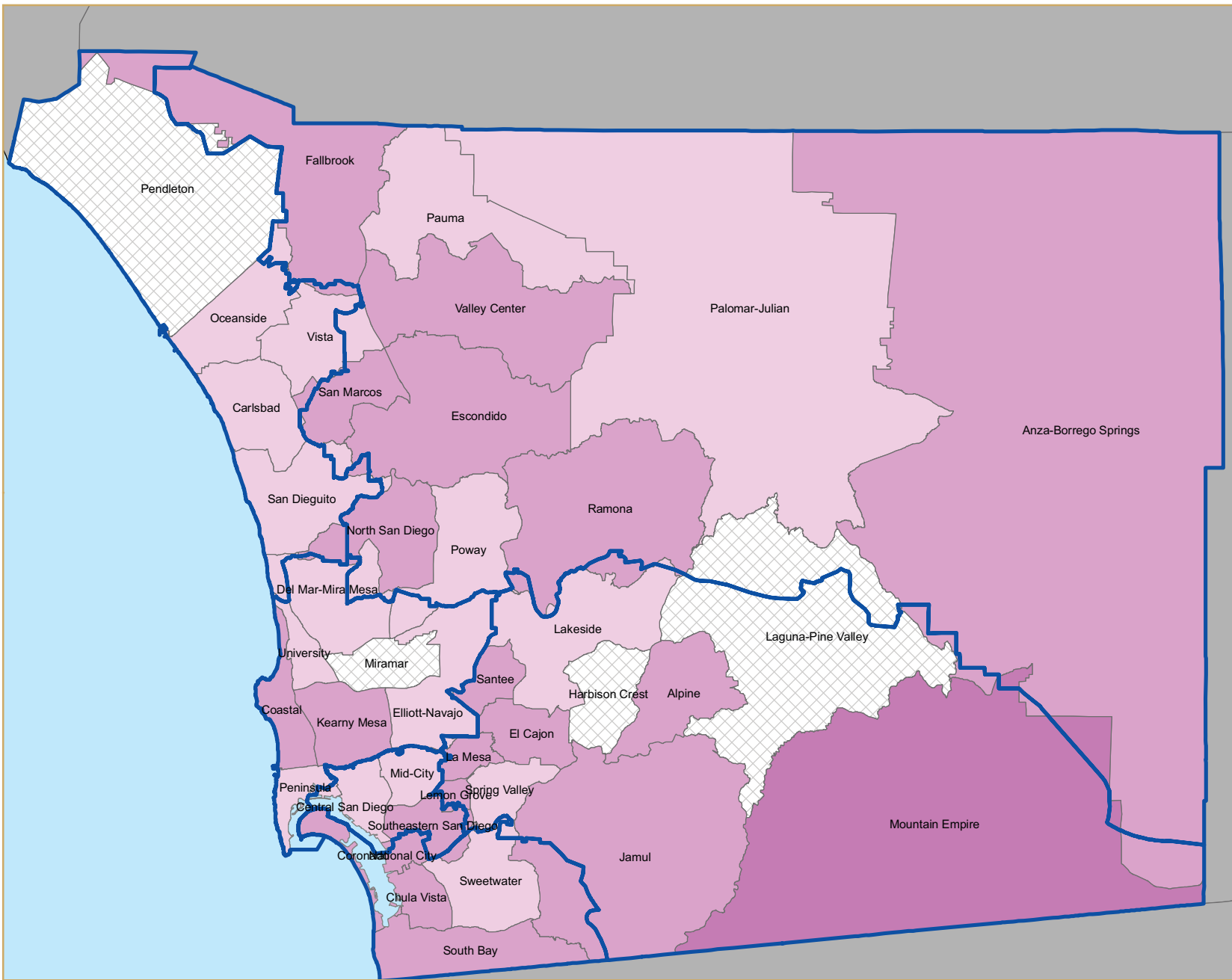
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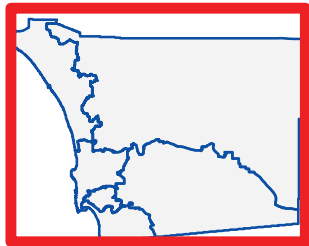County of San Diego Emergency Medical Services
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NAD_1983_StatePlane_California_VI_FIPS_0406_Feet,
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Chronic Disease Outcome Rates
by Subregional Area (SRA)
in San Diego County

Stroke Hosp Rates, 2007

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Map labels (SRAs):
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4 2 0 4 Miles

COUNTY OF SAN DIEGO
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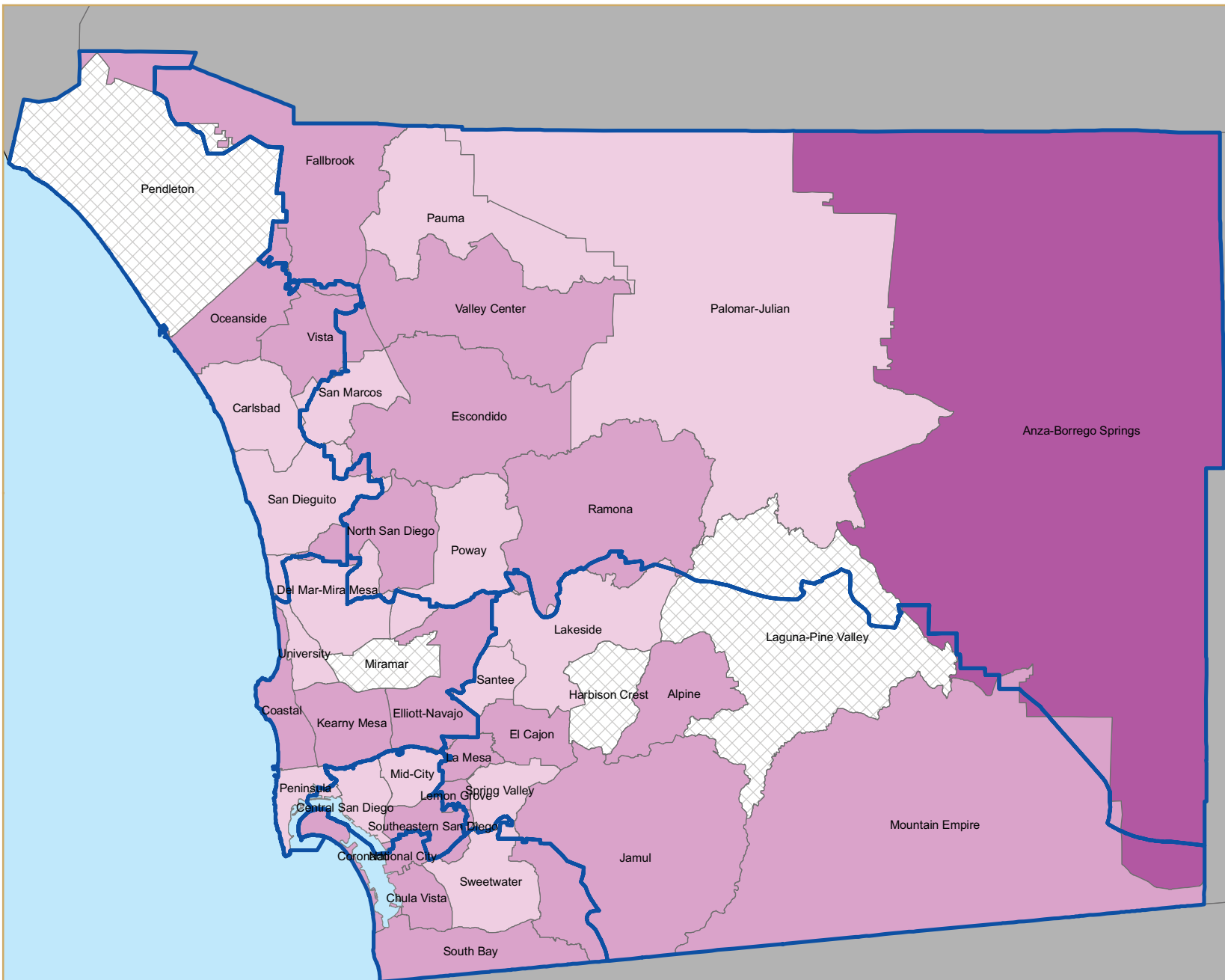
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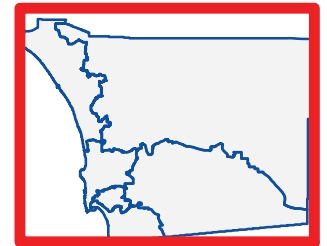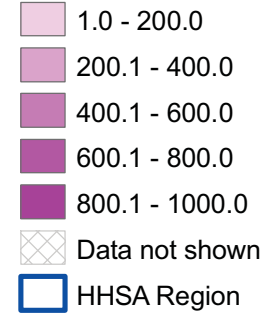
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Chronic Disease Outcome Rates
by Subregional Area (SRA)
in San Diego County

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4 2 0   4 Miles

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NAD_1983_StatePlane_California_VI_FIPS_0406_Feet,
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Stroke Emergency Department Discharge Rates
Among San Diego County Residents
by Subregional Area

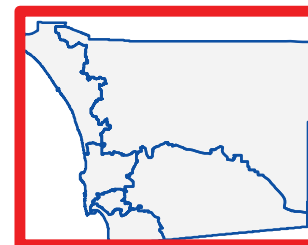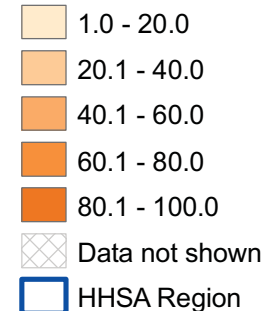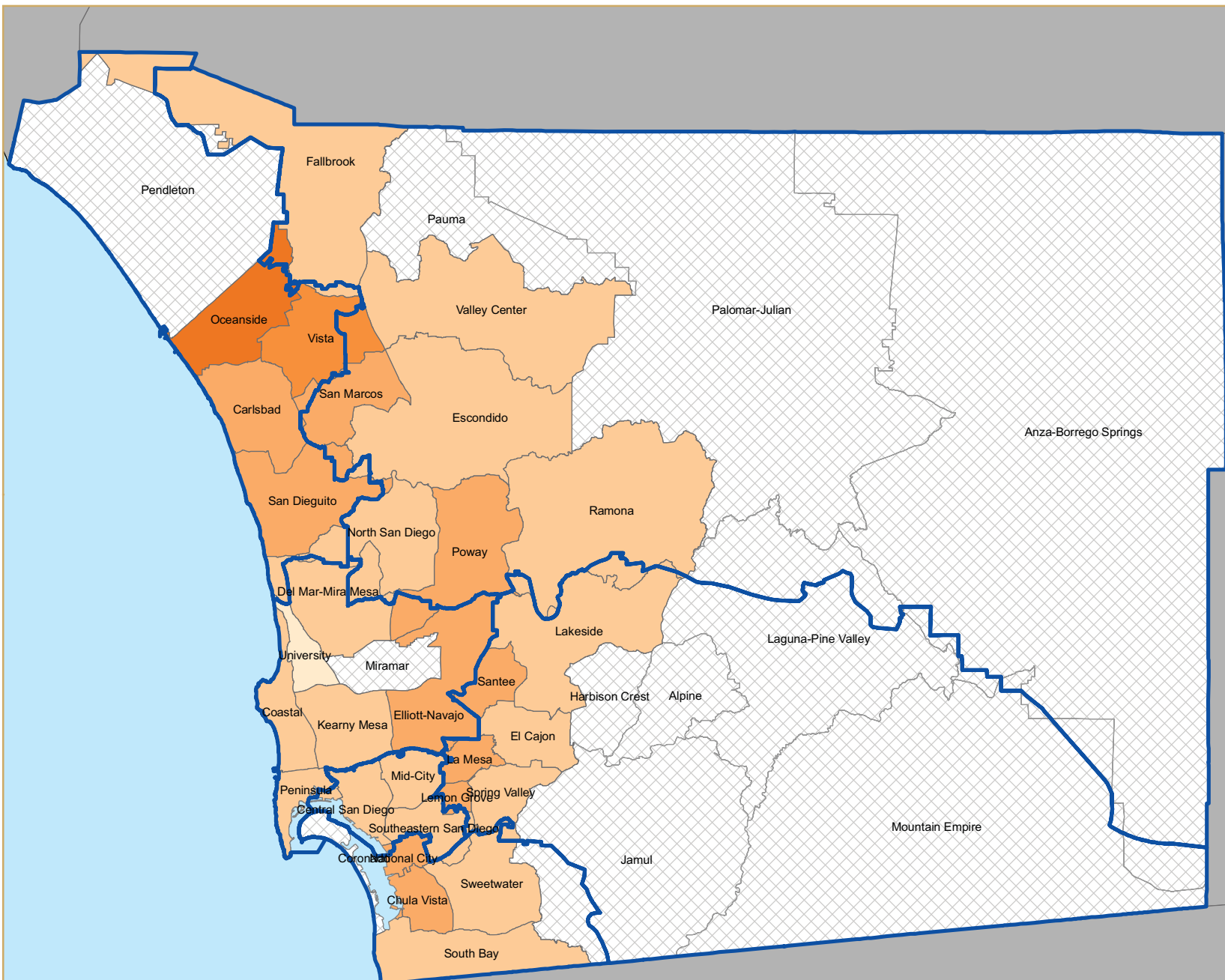## Maps by Year:
2006
2007
2008

Note: ED Discharge data is a new database. 2006 is first year of available data.

Chronic Disease Outcome Rates
by Subregional Area (SRA)
in San Diego County

Stroke ED Rates, 2006

- 1.0 - 20.0
- 20.1 - 40.0
- 40.1 - 60.0
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County map labels: Pendleton, Fallbrook, Pauma, Valley Center, Palomar-Julian, Oceanside, Vista, San Marcos, Carlsbad, Escondido, Anza-Borrego Springs, San Dieguito, North San Diego, Poway, Ramona, Del Mar-Mira Mesa, University, Miramar, Santee, Lakeside, Laguna-Pine Valley, Coastal, Kearny Mesa, Elliott-Navajo, Harbison Crest, Alpine, El Cajon, La Mesa, Mid-City, Spring Valley, Peninsula, Lemon Grove, Central San Diego, Southeastern San Diego, Coronado, National City, Jamul, Mountain Empire, Sweetwater, Chula Vista, South Bay

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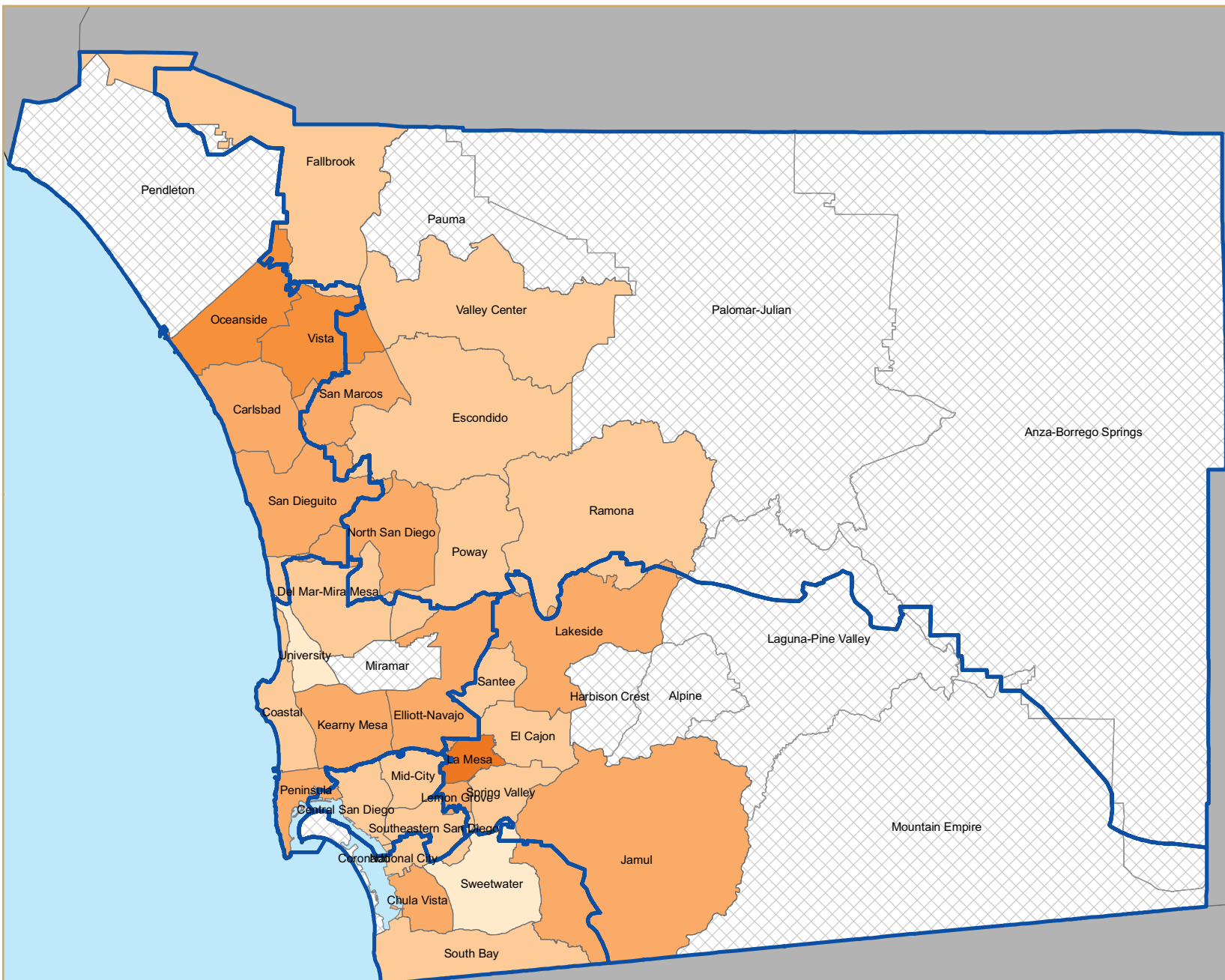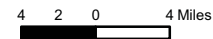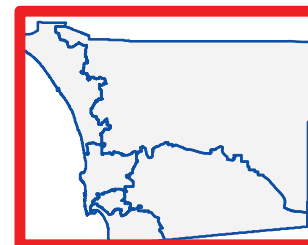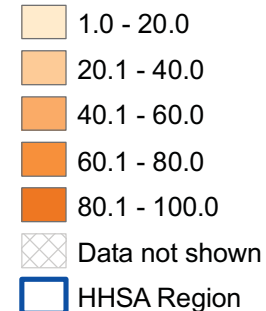
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4 2 0 4 Miles

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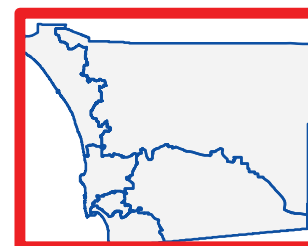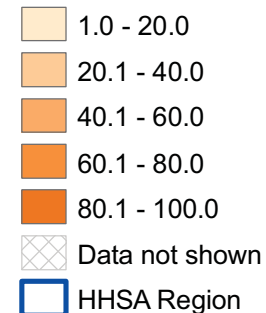
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Ramona
Poway
Del Mar-Mira Mesa
University
Lakeside
Miramar
Laguna-Pine Valley
Coastal
Santee
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Alpine
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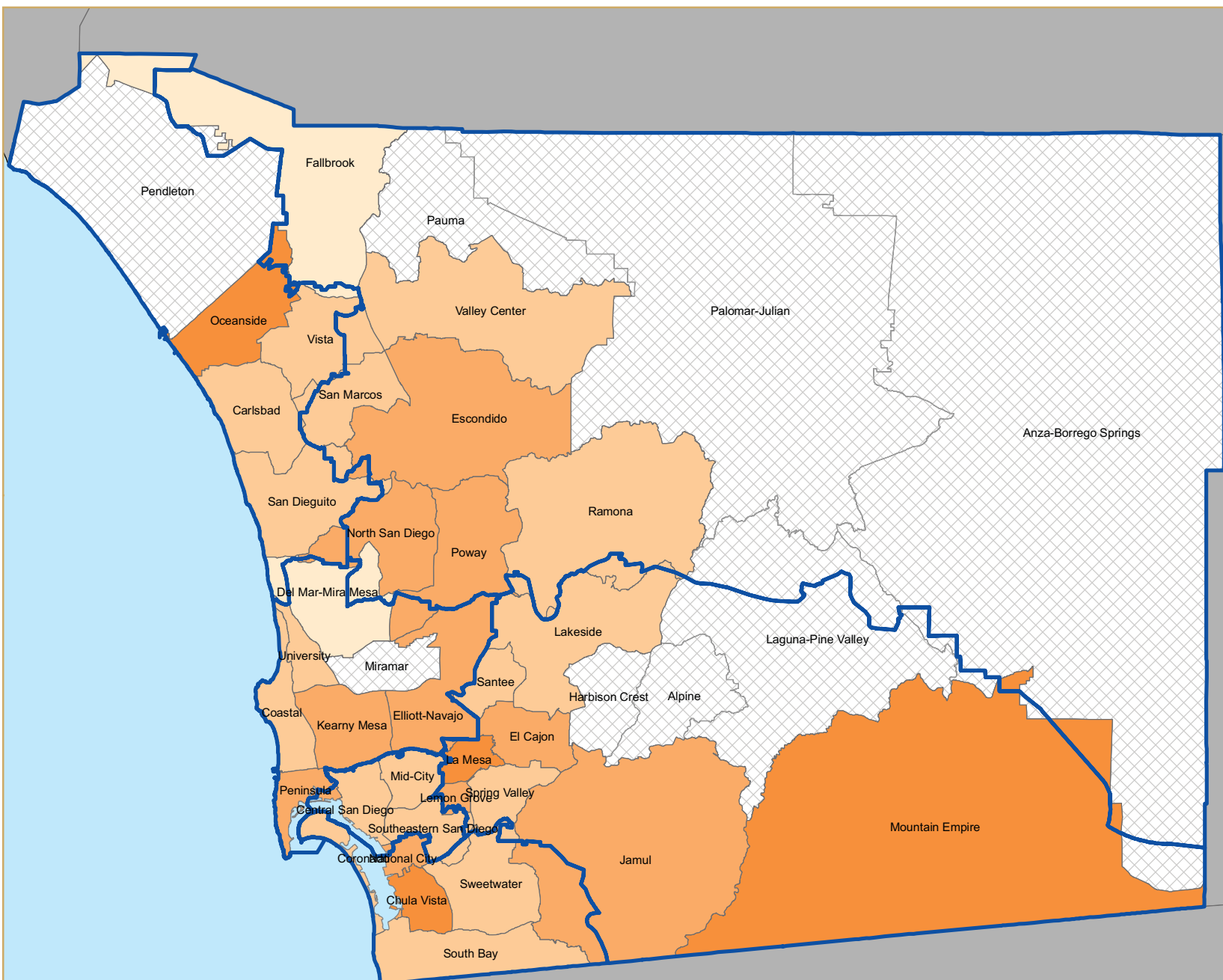County of San Diego Emergency Medical Services
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County of San Diego
Health and Human Services Agency
Public Health Services
Community Health Statistics Unit
www.SDHealthStatistics.com

COUNTY OF SAN DIEGO
HHSA
HEALTH AND HUMAN SERVICES AGENCY